

Randal L. Billingsley  
Project Manager  
Advanced Resources International, Inc.

## Next Generation Modeling for Improved Exploration and Development Success in Naturally Fractured Gas Reservoirs

### Summary:

Advanced Resources International and the Department of Energy are developing an integrated suite of tools as the "next generation" technology for low permeability natural gas resources. The objectives of this project are to lower exploration risk and improve recoveries from naturally fractured reservoirs. The suite incorporates geologic and reservoir engineering tools designed around principles of geomechanics, discrete natural fracture generation, and numerical simulation. The suite of tools facilitates integration of the geologic setting, seismic fault data, discrete natural fracture simulation and production data into a reservoir model that can be used in exploration or development activities.